Figure 1A

| M G T Y F C S R S R G R M M M M M R M K R G O G T L V T V S E |
|--|
| 110 |
| ${	t TACCCATGTATAAAGACAAGTTCTAGCTCCCCATTTTTTGCTTCGGACCAAACGAATAACCCCGGGTTCCCTGAGACCAGTGACAGAGACTT$ |
| ATGGGTACATATTTCTGTTCAAGATCGAGGGGTAAAAAACGAAGCCTGGTTTGCTTATTGGGGCCAAGGGACTCTGGTCACTGTCTCTGAA |
| |
| D D P R G R P A P S L E S S A S T A P L Q I S N L K N E D |
| 60 70 80 82A B C |
| CTACTACTGAAGTTCCCTGCTAAAACGGAAGAAAACCTTAGGAGACGGTCGTGACGGAAAAAACGTCTAGTCGTTGGAGTTTTTACTCCTG |
| GATGATGACTTCAAGGGACGATTTGCCTTCTCTTTTGGAATCCTCTTGCCAGCACTGCCTTTTTTGCAGATCAGCAACCTCAAAAATGAGGAC |
| CDR2 |
| NYGVNWIKOTPGEGLOWMGWINPNTGKPTF |
| TTGATACCTCACTTGACCTATTTCGTCTGAGGTCCTCTCCCAAATGTCACCTACCCGACCTATTTGGGGTTGTGACCTCTCGGTTGTAAA |
| AACTATGGAGTGAACTGGATAAAGCAGACTCCAGGAGAGGGGTTTACAGTGGATGGGCTGGATAAACCCCCAACACTGGAGAGCCAACATTT |
| Q I Q L V Q S G P E L K K P G E T V K V T C K T S G Y T F T |
| 10 20 |
| CTCTAGGGTCAACCTCGGACCTCGACTTCGGACCTCTCTGGGACCTCCAGTTCCAGTTCTGAAGACCTATATGGAAGTGT |
| CAGATCCAGTTGGTGCAGTCTGGACCTGAGCTGAAGAAGCCTGGAGAGACAGTCAAGGTCACCTGCAAGACTTCTGGATATACCTTCACA |
| |
| |
| |

Figure 1B

| | SHVPPTFG |
|--------------------|---|
| | TATTTCTGCTCTCAAAGTTCACATGTTCCTCCCACGTTCGGTGCTGGGACCAAGCTGGAGATCTAAC+++++++ |
| CTGAGGATCTGGGACTT | TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATCAGTAGAGTGGAGGCTGAGGGATCTGGGACTT AGACCCCAGGGTCTGTCCAAGTCACCGTCACCTAGTCCCTAGTCCTAAAGTGTGAGTTCTAGTCATCTCACCTCCGACTCCTAGACCCTGAA 50 S G V P D R F S G S G S G T D F T L K I S R V E A E D L G L |
| ACAGITICCAACCGATIT | CACAGAAATGGAAACACCTATTTACATTGGTACCTGCAGAAGCCAGGCCAGGCCAGTCTCCAAAGCTCCTGATCTACACAGTTTCCAACCGATTT GTGTCTTTACCTTTGTGGATAAATGTAACCATGGACGTCTTCCGGTCAGAGGTTTCGAGGACTAGATGTGTCAAAAGGTTGCCTAAA D B 30 H R N G N T Y L H W Y L Q K P G Q S P K L L I Y T V S N R F CDR1 CDR2 |
| TCTAGTCAGAGCCTTGTA | GATGTTGTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCCATCTCTTGCAGATCTAGTCAGAGCCTTGTACTCAGACACTACTGGGTTTGAGGGGGACGGAC |

Figure 2A

| 113 | CTYFCSRSRGKWENNTWWWWWWWGGGTLYTYS | x |
|----------|--|-----------|
| 360 | RECTIATIGES SCCAAGG GACTCIBGTCACC GICTCCTCA | TA |
| 89 19 | D D F K G R F A F S L E S S A S T A F L Q I S N L K N E D | b |
| 270 | GATGATGACTTCAAGGGACGATTTGCCTTCTCTTTGGAATCCTCTGCCAGCACTGCCTTTTTGCAGATCAGCAACCTCAAAAATGAGGAC 270 CTACTACTGAAGTTCCCTGCTAAACGGAAGAGAAACCTTAGGAGAGACGTCGTGACGGAAAAACGTCTAGTCGTTGGAGTTTTTACTCCTG | C : 02 |
| 59 | Y G V N W I K O T P G E G L Q W M G W I N P N T G E P T P CDR2 | ¥ |
| 180 | AACTATIGGAGTGAACTGGATAAAGCAGACTCCAGGAGAGGGTTTTACAGTGGATGGGCTGGATAAACCCCAACACTGGAGAGGCCAACATTT | 13 : A5 |
| 30 | V Q L Q Q S G P B L K K P G E T V K V T C K T S G Y T F T | Ø |
| 90 | CAGGTCCAACTGCAGCAGTCTGGACCTGAAGCTGAAGAAGCCTGGAGAGACAGTCAAGGTCACCTGCAAGACTTCTCTGGATATACCTTCACA 90 GTCCAGGTTGACGTCSTCAGACCTGGACTTCGACTTCTTCGGACCTCTCTGTCAGTTCCAGTGGACGTTCTGAAGACCTATATGGAAGTGT | គ្ន : ទ្ធ |
| | PstI | |

001.1505876.1

Figure 2B

| rigule 2b | | | | | | | |
|---------------------|--|---|----------------|--|----------------------------------|---|--------|
| CGT GCA R | SGVPDRESGSGSGTDFTLKISRVEARDLGL BglIl/BclI | TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATCAGTAGAGTGGAGGCTGAGGATCTGGGACTT+++++ | CDR1 CDR1 CDR1 | CACAGAAATGGAAACACCTATTTACATTGGTACCTGCAGAAGCCAGGCCAGTCTCCAAAGCTCCTGATCTACACAGTTTCCAACCGATTT | DIQLTOTPLSLPVSLGDOASISCRSSQSLV 2 | GRCCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCCATCTCTTGCAGATCTAGTCAGAGCCTTGTA | EXPLIT |
| 339 106 | 85 | 270 | ហ | 180 | 27C | 90 | |

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Figure 3A

| 1 1 1 | WGQGSLVTVSS | NEWM |
|-------------------|--|----------------------------|
| 1 2 3 3 | ••••T••TVSS | CLL1VH |
| 102 102 102 | LQISSLKADDTAVYYCAREDSNGYKIFDY ••••N••NE•MGT•F•S•SRGKNEAW•A• | RF-TS3 CLL1VH hLL1VH |
| 79 79 | PGQGLEWMGWINTNTGNPTYAQGFTGRFVFSLDTSVSTAY ••E••Q•••••P•••E••FDDD••••A•••ES•A•••F | RF-TS3 CLL1VH hLL1VH |
| 4 4 0 | QVQLVQSGSELKKPGASVKVSCKASGYTFTSYAMNWVRQA | RF-TS3 |
| 4 0 | QVQLQ•••P••••ET•••T••T••••N•GV••IK•T | cLL1VH |
| 4 0 | QVQLQ••••••••IK•T | hLl1VH |

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| Figure 3B | но н | H O H |
|--|--|--|
| HF-21/28 cLL1Vk hLL1Vk | HF-21/28 CLL1Vk hLL1Vk | HF-21/28 CLL1Vk hLL1Vk |
| SRVEAEDVGVYYCMQGTHWPFTFGQGTRLEI ••••••L••F•S•SS•V•P•••A••K••IKR •••••••IKR | FQQRPGQSPRRLIYKVSNRDSGVPDRFSGSGSGTDFTLKI YL•••••KL••T•••F•••••••••••••••••• | DVVMTQSPLSLPVTLGQPASISCRSSQSLVHSDGNTYLNW DIQLS.DQRNH. DIQLS.DQ |
| 106 108 108 | 75 75 75 | ω ω ω σ σ σ |

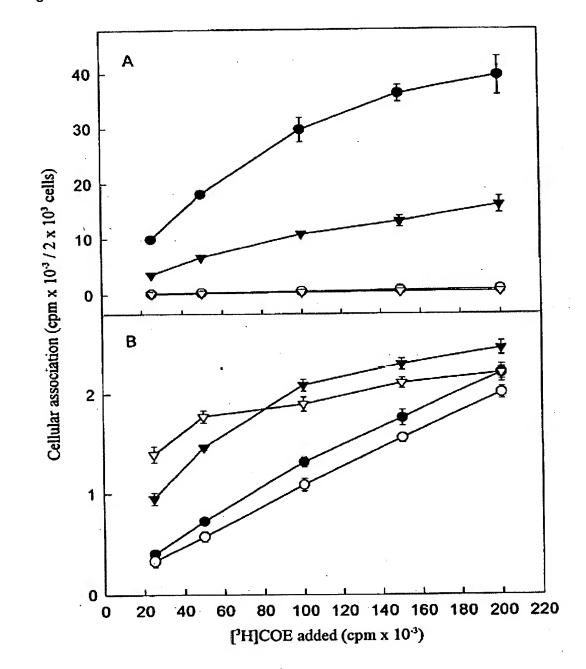
Figure 4A

| | | | | | | | | | | | | | | | | | 2 | CDR3 | | | | | | | | | | | | | |
|-----|-----|--|------|------|------|------|---------|----------|----------|------|-----|--------|-----|----------|-----|------|-------|------|-----|------------|-------|---------|----------|------|------|----------|-------------|---------|------|---------------|--|
| 113 | ω | w | ٧ | н | 4 | C | ч | G | Ø | ଜ | Œ | 14 | × | 10 | Z. | > | Ħ | Z | × | ဓ | × | 100 | 20 | ຜ | Ġ | 177 | ĸ | 4 | Þ | -) | |
| | AGT | TOACGCCACATAAAGACAAGTTCTAGCTCCCCATTTTTTGCTTCGGACCAAACGAATAACCCCGGGTTCCCTGGGACCAGTGGCAGAGGAGT | . ç | iree | Š | Ğ | ू हू | ကို | GII | Coo | Š | ATA | COA | AAA | ດີ | G | CIT | IIG | 111 | CCA | S | ດິດ | CI | Ğ | Ş | Ş Q | 2 | CA C | ស្ព | TGA | |
| 360 | + | | | + | | | + | | , | 1 | + | | ; | * | | | + | ; | - | + | + | | | + | | | | | | | |
| | Ç | ACTGCCGTGTATTTCTGTTCAAGATCGAGGGGTAAAAACGAAGCCTGGTTTGCTTATTGGGGCCAAGGGACCCTGGTCACCGTCTCCTCA | G | ACC | GTC | C.J. | Ž, | 000 | Ç | GGC | ह | TAT | GCT | | TGG | CC | CAA | DAG | | SCT | GG | (D) | Ğ. | Ç. | GT | I C | TATE | STG | SCO | ACT | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 89 | ם | O | ₽ | . * | r | Ø | (2) | \vdash | O | r | ĸ | ≯ | Н | ល | < | Ø | н | b | ۲ | ល | 'EJ | Þ | 773 | Ø | ါဂ | * | 140 | ۵ | P | 9 | |
| | CIG | CTACTACTGAAGITCCCTGCTAAACGGAAGAGGAACCTGTGGAGACAGTCGTGCCGTATAGAGGTCTAGTCGTCGGATTTCCGACTGCTG | S | J.L. | GAT | DOI: | CC | TAG | OTO | GAG | ATA | CGT | TGC | rg | CAG | AGA | TGG | CIG | 200 | ล็ | န် | ဓို | \$ | Ç | CCTC | TTC | AAG | CIG | CTA | CTA | |
| 270 | | GATGATGACTTCAAGGGACGATTTGCCTTCTCCTTGGACACCTCTGTCAGCACGGCATATCTCCAGATCAGCAGCCTAAAGGCTGACGAC | . ij | AAG | CTA | AGO | + 6C | ATC | CAG | CLS | TAT | GCA | CG | र्ने हैं | 3 | 13 | † Å | - P. | TTG | i | + 17 | Ä | H | + Q | GA | AA GC | 110 | SAC | ATO | GATO | |
| | | | CDR2 | G | | | | | | | | | | | | | | | | | | | | | . * | | | CDR1 | Ω | | |
| 59 | 14 | ы | ~ | 000 | e e | 1-3 | × | v | z | i~t. | × | ជ | Z | Ę | O | ۳ | ရ | o. | a | שי | Þ | Ю | * | н | E | × | < | ဓ | ĸ | z | |
| | 25 | TIGATACCTCACTIGACCTATTTCGTCCGGGGACCTGTTCCCGAAGTCACCTACCGACCTATTTGGGGTTGTGACCTCTCGGTTGTAAA | ପ୍ର | ri o | Ç | TGA | TTG | 999 | NLL | TAT | ACC | င္ပင္ပ | TAC | ACC | GIC | GA.A | ္ပင္ပ | GIT | CCT | G. | ်မ္ပ | 370 | ᄗ | TAT | Š | Ħ | CAC | g | ATA(| TIG | |
| 180 | TTT | AACTATGGAGTGAACTOGATAAAGCAGGCCCCTGGACAAGGGCTTCAGTGGATGGGCTGGATAAACCCCCAACACTOGAGAGACCAACATTT | £ 5 | GAG | ជ្ជុ | ACT | * AAO | Ö | AAC C | A CA | TGG | GGC | ATG | TGG | CA | 13 | | CA | GGA | CG | ÷ 500 | CA G | 5 | + 17 | TGQ. | 1 2 | 316 | 455 | TAT | 284 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | Н | שי | H | × | Q | S | Þ | × | O | to. | ⋖ | × | 4 | ເນ | ≫ | G | ש | × | * | t * | 50 | S | G | (n) | O | Ю | t -4 | Ø | < | ٥ | |
| | TOA | GTCCAGGTTGACGTCGTTAGACCCAGACTCAACTTCTTCGGACCCCGGAGTCACTTCCAAAGGACGTTCCGAAGACCTATGTGGAAGTGA | 100 | ATG | L.C. | AGA | CQA | TIC | ACG | AGG | CAA | Z | CAC | AGT | වුව | င္ပ | QQ. | 7 | 3 | Š | CIC | Ĝ. | 50 | AGA: | 717 | SIC | SAC | OT IV | CAG | GIC | |
| 90 | : } | | ; } | + 5 | : 8 | : : | + 1 2 | . 3 | : 2 | 1 | + 2 | : 3 | 1 6 | + 5 | 966 | | + | : 3 | | | + 5 | | 9 | + 6 | 5 | 1 5 | + 5 | | 1 6 | 1 8 | |
| | Ì | Š | Š | 3 | Ş | 3 | 3 | , , | 3 | 3 | |) | 3 | 3 | 3 | 3 | 3 | Š | Š | 3 | j. | | Š | 3 | 3 | | 3 | } ? | 3 | 3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | I | 2 | HLT1AH | |

Figure 4B

| Y F C S Q S S H V P P T F G A G T R L E I K R | TATTTCTGCTCTAAAGTTCACATGTTCCTCCCACGTTCGGTGCTGGGACACGACTGGAGATCAAACGT | SGVPDRFSGSGSGTDFTLKISRVEABDVGV | TCTGGGGTCCCAJACAGATTCAGCGGCAGTGGGTCAGGCACTGATTTCACACTGAAAATCAGCAGGGTGGAGGCTGAGGATGTTGGGGTT | HRNGNTYLHWF-QQRPGQSPRLLIYTVSNRF | CACAGAATIGGAAACACCTATTTACATTGGTTTCAGCAGAGGCCAGGCCAATCTCCAAGGCCCCTGATCTACACAGTTTCCAACCGATTT+ GIGICTTTACCTTTGCGGATAAATGTAACCAAAGTCGTCTCCGGTCCCGGTTAGAGGTTCCGAGGACTAGATGTGTCAAAGGTTGGCTAAA | DIQLTQSPLSLPVTLGQPAS:SCRSSQSLV | GACATCCAGCTGACTCAGTCTCCACTCTCCCTGCCCGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGATCAAGTCAGAGCCTTGTA++++++ |
|---|--|--------------------------------|--|---------------------------------|---|--------------------------------|--|
| 108 | 339 | 80. UT | 270 | 55 55 | 180 | 28C | 90 |

Figure 5



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Figure 6

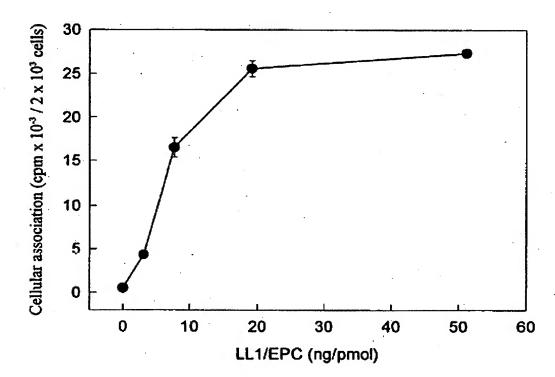


Figure 7

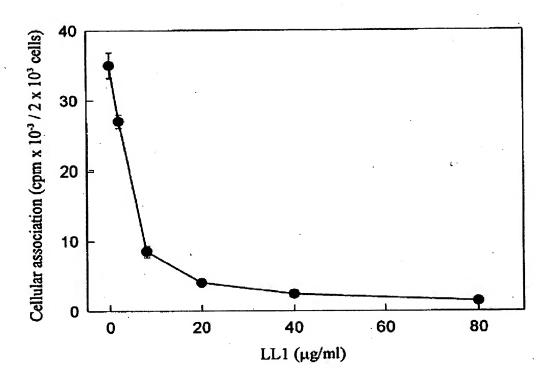
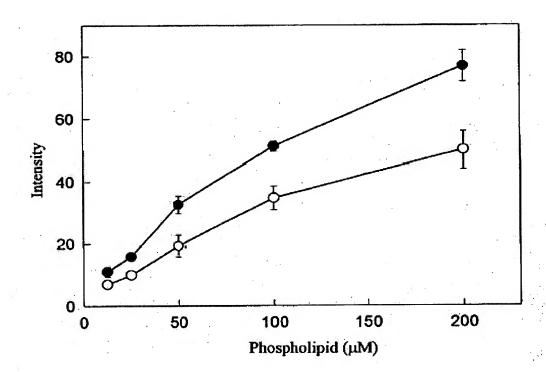


Figure 8



IMM 211

Figure 9

